## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application: Listing of Claims:

- 1. (Currently Amended) A bone grafting composition comprising
- (i) a bone graft material selected from the group consisting of cancellous bone, demineralized bone matrix (DBM) and mixtures thereof and
- (ii) a bone graft extender comprising hollow calcium-containing microstructures-and
  (ii) a cancellous-bone and/or de-mineralized-bone-matrix (DBM).
- $2. \qquad \hbox{(Original) The composition of claim 1, wherein the microstructures are about } \\ 0.5 \ mm \ to \ about \ 6 \ mm \ in \ diameter.$
- (Currently Amended) The composition of claim 1, wherein the bone mixturegraft material comprises bone tissues or bone by-products.
- (Currently Amended) The composition of claim 1, wherein the bone mixture graft material is from about 5% to about 95% by volume of the composition.
- 5. (Currently Amended) The composition of claim 1, wherein the bone mixture graft material is from about 50% to about 75% by volume of the composition.
- (Original) The composition of claim 1, wherein the calcium-containing microstructures comprise hydroxylapatite, tribasic calcium phosphate, dicalcium phosphate, tetracalcium phosphate, calcium carbonate, calcium oxide, glass-containing calcium phosphate, or a mixture thereof.
- (Original) The composition of claim 1, wherein the composition further comprises a bonding agent.
- (Original) The composition of claim 7, wherein the bonding agent is a polymer.
- (Previously presented) The composition of claim 8, wherein the polymer is selected from the group consisting of polylactic acid, polyglycolic acid, polycaprolactone, poly α-hydroxy esters, polyphosphazenes, polyanhydrides, and polypropylene fumarate.
- (Original) The composition of claim 7, wherein the bonding agent is a calcium-containing cement.

- (Original) The composition of claim 10, wherein the calcium-containing cement is from about 5% to about 75% by volume of the composition.
- (Original) The composition of claim 10, wherein the calcium-containing cement is from about 10% to about 50% by volume of the composition.
- (Original) The composition of claim 10, wherein the calcium-containing cement is calcium phosphate, calcium sulfate or a mixture thereof.
- (Original) The composition of claim 10, wherein the calcium-containing cement comprises calcium sulfate.

## 15.-43. (Cancelled)

- 44. (New) The composition of claim 1, wherein the calcium-containing microstructures comprise a mixture of at least two or more compounds selected from the group consisting of hydroxylapatite, tribasic calcium phosphate, dicalcium phosphate, tetracalcium phosphate, calcium carbonate, calcium oxide and glass-containing calcium phosphate.
- (New) The composition of claim 1, wherein the hollow calcium-containing microstructures comprise portals.